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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/750,734	12/27/2000	Sanjay S. Natarajan	42390P10050	7194	
8791 7	590 09/21/2005		EXAMINER		
BLAKELY SOKOLOFF TAYLOR & ZAFMAN			GURLEY, L'	GURLEY, LYNNE ANN	
12400 WILSHIRE BOULEVARD SEVENTH FLOOR		ART UNIT	PAPER NUMBER		
LOS ANGELE	S CA 90025-1030		2812	-	

DATE MAILED: 09/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/750,734	NATARAJAN ET	AL.				
Office Action Summary	Examiner	Art Unit					
	Lynne A. Gurley	2812					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	ith the correspondence a	ddress				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI 36(a). In no event, however, may a vill apply and will expire SIX (6) MOI , cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this BANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 01 Ju	ılv 2005						
·	action is non-final.						
,—	wance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-18,20,21 and 23-29</u> is/are pending	in the application.						
4a) Of the above claim(s) <u>14-17</u> is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>1-7,18,20,24,26,28 and 29</u> is/are allowed.							
6)⊠ Claim(s) <u>8-13, 21, 23, 25 and 27</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examine	·						
,—		by the Evaminer					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
,			. • . • . •				
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreigna) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C.	§ 119(a)-(d) or (f).					
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau	ս (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
		- Amy los	lusly				
		LYNNE A. GURL	EY J				
Attachment(s)		PRIMARY PATENT E	XAMINER				
1) Notice of References Cited (PTO-892)	4) T Interview	TC 2800, AU 281 Summary (PTO-413) (s)/Mail Date	12				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		· ·					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5)	Informal Patént Application (P1 	ГО-152)				

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DETAILED ACTION

This Office Action is in response to the amendment with remarks, filed 17/1/05.

Currently, claims 1-18, 20-21 and 23-29 are pending. Claims 14-17 have been withdrawn.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 8-13, 21, 23, 25 and 27 are rejected under 35 U.S.C. 102(e) as being anticipated by Braeckelmann et al. (US 6,475,925, dated 11/5/02, filed 4/10/00).

Braeckelmann shows the method as claimed in figures 3-6 and corresponding text, with alternating layers 202 etch stop, 204 base, 206 low-k and 208 cap which is configured to suppress substrate reflections during patterning by the addition of ARC layer 302. The sequence of layers is repeated in figures 5-6. Silicon dioxide is disclosed. As well as silicon nitride. A second dielectric is between the first dielectric and the substrate. The interconnection line is a first level interconnection line.

Allowable Subject Matter

3. Claims 1-7, 18, 20, 24, 26, and 28-29 are allowed.

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Response to Arguments

- 4. Applicant's arguments filed 7/1/05 have been fully considered but they are not persuasive. In response to Applicant's remarks, figure 5 shows the alternating material layers and thickness is a primary consideration as disclosed (column 4, lines 59-65).
- 5. Additionally, in response to Applicant's remarks regarding Braeckelman "failing to suppress reflections", the Examiner takes the position that the broadest interpretation of the claim language, especially the word "comprising", allows the ARC layer as a dielectric layer to enable the structure to suppress the substrate reflections during patterning. The ARC layer is not precluded from the "configuration".

Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lynne A. Gurley whose telephone number is 571-272-1670. The examiner can normally be reached on M-F 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt can be reached on 571-272-1873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lynne A. Gurley

Primary Patent Examiner

TC 2800, AU 2812

LAG September 19, 2005